# RAW SEQUENCE LISTING
# ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10 / 734, 661

Source: oipe

Date Processed by STIC: 12-30-03

**THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.**
**PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:**
1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY
FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT
MARK SPENCER, TELEPHONE: 703-308-4212; FAX: 703-308-4221
*Effective 12/13/03*: TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE **CHECKER VERSION 4.1 PROGRAM**, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:
**http://www.uspto.gov/web/offices/pac/checker/chkr41note.htm**

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.
Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.
Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (**<http://www.uspto.gov/ebc/efs/downloads/documents.htm>**, EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry directly to (EFFECTIVE 12/01/03):
   U.S. Patent and Trademark Office, Box Sequence, Customer Window, Lobby, Room 1B03, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202
4. Federal Express, United Parcel Service, or other delivery service to: U.S. Patent and Trademark Office, Box Sequence, Room 1B03-Mailroom, Crystal Plaza Two, 2011 South Clark Place, Arlington, VA 22202

Revised 10/08/03

# Raw Sequence Listing Error Summary

| ERROR DETECTED | SUGGESTED CORRECTION | SERIAL NUMBER: 10/734,661 |
|---|---|---|

**ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE**

**1____Wrapped Nucleics Wrapped Aminos** — The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor **after** creating it. Please adjust your right margin to .3; this will prevent "wrapping."

**2____Invalid Line Length** — The rules require that a line **not exceed** 72 characters in length. This includes white spaces.

**3____Misaligned Amino Numbering** — The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use **space characters**, instead.

**4____Non-ASCII** — The submitted file was **not** saved in ASCII(DOS) text, as **required** by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

**5____Variable Length** — Sequence(s)____contain n's or Xaa's representing more than one residue. **Per Sequence Rules, each n or Xaa can only represent a single residue.** Please present the **maximum** number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

**6____PatentIn 2.0 "bug"** — A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) _____. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. **This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.**

**7____Skipped Sequences (OLD RULES)** — Sequence(s) _____ missing. If intentional, please insert the following lines for **each** skipped sequence:
(2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
(i)        SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
This sequence is intentionally skipped

Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to **include** the skipped sequences.

**8____Skipped Sequences (NEW RULES)** — Sequence(s) _____ missing. If **intentional**, please insert the following lines for **each** skipped sequence.
<210> sequence id number
<400> sequence id number
000

**9____Use of n's or Xaa's (NEW RULES)** — Use of n's and/or Xaa's have been detected in the Sequence Listing.
Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

**10 X__Invalid <213> Response** — Per 1.823 of Sequence Rules, the only **valid** <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is **required** when <213> response is Unknown or is Artificial Sequence

**11____Use of <220>** — Sequence(s) _____ missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown." Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32)   (Sec. 1.823 of Sequence Rules)

**12____PatentIn 2.0 "bug"** — Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

**13____Misuse of n/Xaa** — "n" can only represent a single <u>nucleotide</u>; "Xaa" can only represent a single <u>amino acid</u>

?.4,6

```
           RAW SEQUENCE LISTING              DATE: 12/30/2003
           PATENT APPLICATION:  US/10/734,661   TIME: 10:52:00

           Input Set : A:\081408-04400.ST25.txt
           Output Set: N:\CRF4\12302003\J734661.raw


 3 <110> APPLICANT: ProChon Biotech, Ltd.
 4         MorphoSys AG
 5         Yayon, Avner
 6         Thomassen-Wolf, Elisabeth
 7         Rom, Eran
 8         Borges, Eric
10 <120> TITLE OF INVENTION: ANTIBODIES THAT BLOCK RECEPTOR PROTEIN TYROSINE KINASE ACTIVATION
12 <130> FILE REFERENCE: 81408-4400
14 <140> CURRENT APPLICATION NUMBER: US/10/734,661
14 <141> CURRENT FILING DATE: 2003-12-15
14 <150> PRIOR APPLICATION NUMBER: US 60/299,187
15 <151> PRIOR FILING DATE: 2001-06-20
17 <150> PRIOR APPLICATION NUMBER: PCT/IL02/00494
18 <151> PRIOR FILING DATE: 2002-06-20
20 <160> NUMBER OF SEQ ID NOS: 106
22 <170> SOFTWARE: PatentIn version 3.2
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 806
26 <212> TYPE: PRT
27 <213> ORGANISM: Homo sapiens
29 <300> PUBLICATION INFORMATION:
30 <308> DATABASE ACCESSION NO: np_000133
31 <309> DATABASE ENTRY DATE: 2001-02-21
32 <313> RELEVANT RESIDUES: (1)..(806)
34 <400> SEQUENCE: 1
36 Met Gly Ala Pro Ala Cys Ala Leu Ala Leu Cys Val Ala Val Ala Ile
37 1               5                   10                  15
40 Val Ala Gly Ala Ser Ser Glu Ser Leu Gly Thr Glu Gln Arg Val Val
41             20                  25                  30
44 Gly Arg Ala Ala Glu Val Pro Gly Pro Glu Pro Gly Gln Gln Glu Gln
45             35                  40                  45
48 Leu Val Phe Gly Ser Gly Asp Ala Val Glu Leu Ser Cys Pro Pro Pro
49         50                  55                  60
52 Gly Gly Gly Pro Met Gly Pro Thr Val Trp Val Lys Asp Gly Thr Gly
53 65                  70                  75                  80
56 Leu Val Pro Ser Glu Arg Val Leu Val Gly Pro Gln Arg Leu Gln Val
57                 85                  90                  95
60 Leu Asn Ala Ser His Glu Asp Ser Gly Ala Tyr Ser Cys Arg Gln Arg
61             100                 105                 110
64 Leu Thr Gln Arg Val Leu Cys His Phe Ser Val Arg Val Thr Asp Ala
65             115                 120                 125
68 Pro Ser Ser Gly Asp Asp Glu Asp Gly Glu Asp Glu Ala Glu Asp Thr
69         130                 135                 140
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RAW SEQUENCE LISTING    DATE: 12/30/2003
PATENT APPLICATION: US/10/734,661  TIME: 10:52:00

Input Set : A:\081408-04400.ST25.txt
Output Set: N:\CRF4\12302003\J734661.raw

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72  Gly Val Asp Thr Gly Ala Pro Tyr Trp Thr Arg Pro Glu Arg Met Asp
73  145                 150                 155                 160
76  Lys Lys Leu Leu Ala Val Pro Ala Ala Asn Thr Val Arg Phe Arg Cys
77                  165                 170                 175
80  Pro Ala Ala Gly Asn Pro Thr Pro Ser Ile Ser Trp Leu Lys Asn Gly
81                  180                 185                 190
84  Arg Glu Phe Arg Gly Glu His Arg Ile Gly Gly Ile Lys Leu Arg His
85          195                 200                 205
88  Gln Gln Trp Ser Leu Val Met Glu Ser Val Val Pro Ser Asp Arg Gly
89      210                 215                 220
92  Asn Tyr Thr Cys Val Val Glu Asn Lys Phe Gly Ser Ile Arg Gln Thr
93  225                 230                 235                 240
96  Tyr Thr Leu Asp Val Leu Glu Arg Ser Pro His Arg Pro Ile Leu Gln
97                  245                 250                 255
100 Ala Gly Leu Pro Ala Asn Gln Thr Ala Val Leu Gly Ser Asp Val Glu
101                 260                 265                 270
104 Phe His Cys Lys Val Tyr Ser Asp Ala Gln Pro His Ile Gln Trp Leu
105         275                 280                 285
108 Lys His Val Glu Val Asn Gly Ser Lys Val Gly Pro Asp Gly Thr Pro
109     290                 295                 300
112 Tyr Val Thr Val Leu Lys Thr Ala Gly Ala Asn Thr Thr Asp Lys Glu
113 305                 310                 315                 320
116 Leu Glu Val Leu Ser Leu His Asn Val Thr Phe Glu Asp Ala Gly Glu
117                 325                 330                 335
120 Tyr Thr Cys Leu Ala Gly Asn Ser Ile Gly Phe Ser His His Ser Ala
121         340                 345                 350
124 Trp Leu Val Val Leu Pro Ala Glu Glu Glu Leu Val Glu Ala Asp Glu
125         355                 360                 365
128 Ala Gly Ser Val Tyr Ala Gly Ile Leu Ser Tyr Gly Val Gly Phe Phe
129     370                 375                 380
132 Leu Phe Ile Leu Val Val Ala Ala Val Thr Leu Cys Arg Leu Arg Ser
133 385                 390                 395                 400
136 Pro Pro Lys Lys Gly Leu Gly Ser Pro Thr Val His Lys Ile Ser Arg
137                 405                 410                 415
140 Phe Pro Leu Lys Arg Gln Val Ser Leu Glu Ser Asn Ala Ser Met Ser
141         420                 425                 430
144 Ser Asn Thr Pro Leu Val Arg Ile Ala Arg Leu Ser Ser Gly Glu Gly
145         435                 440                 445
148 Pro Thr Leu Ala Asn Val Ser Glu Leu Glu Leu Pro Ala Asp Pro Lys
149     450                 455                 460
152 Trp Glu Leu Ser Arg Ala Arg Leu Thr Leu Gly Lys Pro Leu Gly Glu
153 465                 470                 475                 480
156 Gly Cys Phe Gly Gln Val Val Met Ala Glu Ala Ile Gly Ile Asp Lys
157         485                 490                 495
160 Asp Arg Ala Ala Lys Pro Val Thr Val Ala Val Lys Met Leu Lys Asp
161         500                 505                 510
164 Asp Ala Thr Asp Lys Asp Leu Ser Asp Leu Val Ser Glu Met Glu Met
165     515                 520                 525
168 Met Lys Met Ile Gly Lys His Lys Asn Ile Ile Asn Leu Leu Gly Ala
```

```
169      530                  535                  540
172 Cys Thr Gln Gly Gly Pro Leu Tyr Val Leu Val Glu Tyr Ala Ala Lys
173 545                  550                  555                  560
176 Gly Asn Leu Arg Glu Phe Leu Arg Ala Arg Arg Pro Pro Gly Leu Asp
177                  565                  570                  575
180 Tyr Ser Phe Asp Thr Cys Lys Pro Pro Glu Glu Gln Leu Thr Phe Lys
181                  580                  585                  590
184 Asp Leu Val Ser Cys Ala Tyr Gln Val Ala Arg Gly Met Glu Tyr Leu
185          595                  600                  605
188 Ala Ser Gln Lys Cys Ile His Arg Asp Leu Ala Ala Arg Asn Val Leu
189          610                  615                  620
192 Val Thr Glu Asp Asn Val Met Lys Ile Ala Asp Phe Gly Leu Ala Arg
193 625                  630                  635                  640
196 Asp Val His Asn Leu Asp Tyr Tyr Lys Lys Thr Thr Asn Gly Arg Leu
197                  645                  650                  655
200 Pro Val Lys Trp Met Ala Pro Glu Ala Leu Phe Asp Arg Val Tyr Thr
201                  660                  665                  670
204 His Gln Ser Asp Val Trp Ser Phe Gly Val Leu Leu Trp Glu Ile Phe
205          675                  680                  685
208 Thr Leu Gly Gly Ser Pro Tyr Pro Gly Ile Pro Val Glu Glu Leu Phe
209          690                  695                  700
212 Lys Leu Leu Lys Glu Gly His Arg Met Asp Lys Pro Ala Asn Cys Thr
213 705                  710                  715                  720
216 His Asp Leu Tyr Met Ile Met Arg Glu Cys Trp His Ala Ala Pro Ser
217                  725                  730                  735
220 Gln Arg Pro Thr Phe Lys Gln Leu Val Glu Asp Leu Asp Arg Val Leu
221                  740                  745                  750
224 Thr Val Thr Ser Thr Asp Glu Tyr Leu Asp Leu Ser Ala Pro Phe Glu
225          755                  760                  765
228 Gln Tyr Ser Pro Gly Gly Gln Asp Thr Pro Ser Ser Ser Ser Ser Gly
229          770                  775                  780
232 Asp Asp Ser Val Phe Ala His Asp Leu Leu Pro Pro Ala Pro Pro Ser
233 785                  790                  795                  800
236 Ser Gly Gly Ser Arg Thr
237                  805
240 <210> SEQ ID NO: 2
241 <211> LENGTH: 32
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: artificial primer
248 <400> SEQUENCE: 2
249 acgtgctagc tgagtccttg gggacggagc ag                           32
252 <210> SEQ ID NO: 3
253 <211> LENGTH: 55
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: artificial primer
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RAW SEQUENCE LISTING                    DATE: 12/30/2003
PATENT APPLICATION: **US/10/734,661**      TIME: 10:52:00

Input Set : **A:\081408-04400.ST25.txt**
Output Set: **N:\CRF4\12302003\J734661.raw**

```
260 <400> SEQUENCE: 3
261 acgtctcgag ttaatggtga tggtgatggt gtgcatacac acagcccgcc tcgtc              55
264 <210> SEQ ID NO: 4
265 <211> LENGTH: 1147
266 <212> TYPE: DNA
267 <213> ORGANISM: Homo sapiens
269 <300> PUBLICATION INFORMATION:
270 <308> DATABASE ACCESSION NO: m58051
271 <309> DATABASE ENTRY DATE: 1994-11-08
272 <313> RELEVANT RESIDUES: (1)..(1147)
274 <400> SEQUENCE: 4
275 gcgcgctgcc tgaggacgcc gcggcccccg ccccgccat gggcgcccct gcctgcgccc       60
277 tcgcgctctg cgtggccgtg gccatcgtgg ccggcgcctc ctcggagtcc ttggggacgg      120
279 agcagcgcgt cgtggggcga gcggcagaag tcccgggccc agagcccggc cagcaggagc      180
281 agttggtctt cggcagcggg gatgctgtgg agctgagctg tccccgcccc gggggtggtc      240
283 ccatggggcc cactgtctgg gtcaaggatg cacagggct ggtgccctcg gagcgtgtcc       300
285 tggtggggcc ccagcggctg caggtgctga atgcctccca cgaggactcc ggggcctaca      360
287 gctgccggca gcggctcacg cagcgcgtac tgtgccactt cagtgtgcgg gtgacagacg      420
289 ctccatcctc gggagatgac gaagacgggg aggacgaggc tgaggacaca ggtgtggaca      480
291 caggggcccc ttactggaca cggcccgagc ggatggacaa gaagctgctg gccgtgccgg      540
293 ccgccaacac cgtccgcttc cgctgcccag ccgctggcaa ccccactccc tccatctcct      600
295 ggctgaagaa cggcagggag ttccgcggcg agcaccgcat tggaggcatc aagctgcggc      660
297 atcagcagtg gagcctggtc atggaaagcg tggtgccctc ggaccgcggc aactacacct      720
299 gcgtcgtgga gaacaagttt ggcagcatcc ggcagacgta cacgctggac gtgctggagc      780
301 gctccccgca ccggcccatc ctgcaggcgg ggctgccggc caaccagacg gcggtgctgg      840
303 gcagcgacgt ggagttccac tgcaaggtgt acagtgacgc acagccccac atccagtggc      900
305 tcaagcacgt ggaggtgaac ggcagcaagg tgggcccgga cggcacaccc tacgttaccg      960
307 tgctcaagac ggcgggcgct aacaccaccg acaaggagct agaggttctc tccttgcaca     1020
309 acgtcacctt tgaggacgcc ggggagtaca cctgcctggc gggcaattct attgggtttt     1080
311 ctcatcactc tgcgtggctg gtggtgctgc cagccgagga ggagctggtg gaggctgacg     1140
313 aggcggg                                                                1147
316 <210> SEQ ID NO: 5
317 <211> LENGTH: 5695
318 <212> TYPE: DNA
319 <213> ORGANISM: EXPRESSION VECTOR pCEP-PU/AC7
321 <400> SEQUENCE: 5
322 gacggatcgg gagatctccc gatcccctat ggtcgactct cagtacaatc tgctctgatg       60
324 ccgcatagtt aagccagtat ctgctccctg cttgtgtgtt ggaggtcgct gagtagtgcg      120
326 cgagcaaaat ttaagctaca acaaggcaag gcttgaccga caattgcatg aagaatctgc      180
328 ttagggttag gcgttttgcg ctgcttcgcg atgtacgggc cagatatacg cgttgacatt      240
330 gattattgac tagttattaa tagtaatcaa ttacggggtc attagttcat agcccatata      300
332 tggagttccg cgttacataa cttacggtaa atggcccgcc tggctgaccg cccaacgacc      360
334 cccgcccatt gacgtcaata atgacgtatg ttcccatagt aacgccaata gggactttcc      420
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338 atcatatgcc aagtacgccc cctattgacg tcaatgacgg taaatggccc gcctggcatt      540
340 atgcccagta catgacctta tgggactttc ctacttggca gtacatctac gtattagtca      600
342 tcgctattac catggtgatg cggttttggc agtacatcaa tgggcgtgga tagcggtttg      660
344 actcacgggg atttccaagt ctccacccca ttgacgtcaa tgggagtttg ttttggcacc      720
346 aaaatcaacg ggactttcca aaatgtcgta acaactccgc cccattgacg caaatgggcg      780
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See item 10 on error summary report.

RAW SEQUENCE LISTING                     DATE: 12/30/2003
PATENT APPLICATION:  US/10/734,661       TIME: 10:52:00

Input Set : A:\081408-04400.ST25.txt
Output Set: N:\CRF4\12302003\J734661.raw

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348 gtaggcgtgt acggtgggag gtctatataa gcagagctct ctggctaact agagaaccca    840
350 ctgcttactg gcttatcgaa attaatacga ctcactatag ggagacccaa gctggctagc    900
352 gtttaaactt aagcttggta ccgagctcgg atccccgtcg tgcatctatc gaaggtcgtg    960
354 gagatcccga ggagcccaaa tcttgtgaca aaactcacac atgcccaccg tgcccagcac   1020
356 ctgaactcct ggggggaccg tcagtcttcc tcttcccccc aaaacccaag gacaccctca   1080
358 tgatctcccg gacccctgag gtcacatgcg tggtggtgga cgtgagccac gaagaccctg   1140
360 aggtcaagtt caactggtac gtggacggcg tggaggtgca taatgccaag acaaagccgc   1200
362 gggaggagca gtacaacagc acgtaccggg tggtcagcgt cctcaccgtc ctgcaccagg   1260
364 actggctgaa tggcaaggag tacaagtgca aggtctccaa caaagccctc ccagccccca   1320
366 tcgagaaaac catctccaaa gccaaagggc agccccgaga accacaggtg tacaccctgc   1380
368 ccccatcccg ggatgagctg accaagaacc aggtcagcct gacctgcctg gtcaaaggct   1440
370 tctatcccag cgacatcgcc gtggagtggg agagcaatgg gcagccggag aacaactaca   1500
372 agaccacgcc tcccgtgctg gactccgacg gctccttctt cctctacagc aagctcaccg   1560
374 tggacaagag caggtggcag caggggaacg tcttctcatg ctccgtgatg catgaggctc   1620
376 tgcacaacca ctacacgcag aagagcctct ccctgtctcc gggtaaatga tctagagggc   1680
378 ccgtttaaac ccgctgatca gcctcgactg tgccttctag ttgccagcca tctgttgttt   1740
380 gcccctcccc cgtgccttcc ttgaccctgg aaggtgccac tcccactgtc ctttcctaat   1800
382 aaaatgagga aattgcatcg cattgtctga gtaggtgtca ttctattctg gggggtgggg   1860
384 tggggcagga cagcaagggg gaggattggg aagacaatag caggcatgct ggggatgcgg   1920
386 tgggctctat ggcttctgag gcggaaagaa ccagctgggg ctctaggggg tatccccacg   1980
388 cgccctgtag cggcgcatta agcgcggcgg gtgtggtggt tacgcgcagc gtgaccgcta   2040
390 cacttgccag cgccctagcg cccgctcctt tcgctttctt cccttccttt ctcgccacgt   2100
392 tcgccggctt tccccgtcaa gctctaaatc ggggcatccc tttagggttc cgatttagtg   2160
394 ctttacggca cctcgacccc aaaaaacttg attagggtga tggttcacgt agtgggccat   2220
396 cgccctgata gacggttttt cgccctttga cgttggagtc cacgttcttt aatagtggac   2280
398 tcttgttcca aactggaaca cactcaacc ctatctcggt ctattctttt gatttataag   2340
400 ggattttggg gatttcggcc tattggttaa aaaatgagct gatttaacaa aaatttaacg   2400
402 cgaattaatt ctgtggaatg tgtgtcagtt agggtgtgga aagtccccag gctccccagg   2460
404 caggcagaag tatgcaaagc atgcatctca attagtcagc aaccaggtgt ggaaagtccc   2520
406 caggctcccc agcaggcaga agtatgcaaa gcatgcatct caattagtca gcaaccatag   2580
408 tcccgcccct aactccgccc atcccgcccc taactccgcc cagttccgcc cattctccgc   2640
410 cccatggctg actaatttt tttatttatg cagaggccga ggccgcctct gcctctgagc   2700
412 tattccagaa gtagtgagga ggcttttttg gaggcctagg cttttgcaaa aagctcccgg   2760
414 gagcttgtat atccattttc ggatctgatc agcacgtgtt gacaattaat catcggcata   2820
416 gtatatcggc atagtataat acgacaaggt gaggaactaa accatggcca agttgaccag   2880
418 tgccgttccg gtgctcaccg cgcgcgacgt cgccggagcg gtcgagttct ggaccgaccg   2940
420 gctcgggttc tcccgggact tcgtggagga cgacttcgcc ggtgtggtcc gggacgacgt   3000
422 gaccctgttc atcagcgcgg tccaggacca ggtggtgccg gacaacaccc tggcctgggt   3060
424 gtgggtgcgc ggcctggacg agctgtacgc cgagtggtcg gaggtcgtgt ccacgaactt   3120
426 ccgggacgcc tccgggccgg ccatgaccga gatcggcgag cagccgtggg ggcgggagtt   3180
428 cgccctgcgc gacccggccg gcaactgcgt gcacttcgtg gccgaggagc aggactgaca   3240
430 cgtgctacga gatttcgatt ccaccgccgc cttctatgaa aggttgggct tcggaatcgt   3300
432 tttccgggac gccggctgga tgatcctcca gcgcggggat ctcatgctgg agttcttcgc   3360
434 ccaccccaac ttgtttattg cagcttataa tggttacaaa taaagcaata gcatcacaaa   3420
436 tttcacaaat aaagcatttt tttcactgca ttctagttgt ggtttgtcca aactcatcaa   3480
438 tgtatcttat catgtctgta taccgtcgac ctctagctag agcttggcgt aatcatggtc   3540
440 atagctgttt cctgtgtgaa attgttatcc gctcacaatt ccacacaaca tacgagccgg   3600
442 aagcataaag tgtaaagcct ggggtgccta atgagtgagc taactcacat taattgcgtt   3660
444 gcgctcactg cccgctttcc agtcgggaaa cctgtcgtgc cagctgcatt aatgaatcgg   3720
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RAW SEQUENCE LISTING ERROR SUMMARY          DATE: 12/30/2003
PATENT APPLICATION:  **US/10/734,661**          TIME: 10:52:01

Input Set : **A:\081408-04400.ST25.txt**
Output Set: **N:\CRF4\12302003\J734661.raw**

ase **Note**:
 of n and/or Xaa have been detected in the Sequence Listing. Please review the
uence Listing to ensure that a corresponding explanation is presented in the <220>
<223> fields of each sequence which presents at least one n or Xaa.

```
#:54; N Pos. 253,254,255
#:56; N Pos. 256,257,258
#:70; N Pos. 1,2,3
#:74; N Pos. 1,2,3
#:81; N Pos. 1,2,3
#:83; N Pos. 1,2,3
```

**VERIFICATION SUMMARY**                DATE: 12/30/2003
PATENT APPLICATION:  **US/10/734,661**      TIME: 10:52:01

Input Set : **A:\081408-04400.ST25.txt**
Output Set: **N:\CRF4\12302003\J734661.raw**

4 M:270 C: Current Application Number differs, Replaced Current Application No
4 M:271 C: Current Filing Date differs, Replaced Current Filing Date
610 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:54 after pos.:240
660 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:56 after pos.:240
966 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:70 after pos.:0
062 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74 after pos.:0
232 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:81 after pos.:0
284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:0